

## CLAIMS

What is claimed is:

1. A method, comprising:

monitoring a level of power consumption of a system; and

when the monitored level of power consumption of the system violates a power

consumption policy, adjusting power consumption of one or more components

in the system until the level of power consumption of the system does not

violate the power consumption policy, wherein adjusting the power

consumption of the one or more components in the system includes setting

the one or more components to a different operation mode without having to

power off the one or more components.

2. The method of claim 1, wherein the power consumption policy includes a high

threshold and a low threshold, and wherein the power consumption policy is

violated when the monitored level of power consumption is beyond a range

between the high threshold and the low threshold.

3. The method of claim 2, wherein the power consumption policy includes

information about the one or more components in the system.

4. The method of claim 3, wherein the information about the one or more components in the system includes information about how to adjust the power consumption of the one or more components.

5. The method of claim 2, wherein adjusting power consumption of one or more components in the system when the monitored level of power consumption violates a power consumption policy comprises:

determining if the monitored level of power consumption violates the high threshold; and

when the monitored level of power consumption violates the high threshold, reducing the power consumption of the one or more components in the system.

6. The method of claim 5, further comprising:

when the monitored level of power consumption does not violate the high

threshold, determining if the power consumption of the one or more components in the system has been previously reduced; and

when the power consumption of the one or more components in the system has been previously reduced, allowing the power consumption of the one or more components to increase.

7. The method of claim 1, wherein monitoring the level of power consumption of the system comprises accessing information about a current level of power consumption from a power supply providing power to the system.

8. The method of claim 1, wherein monitoring the level of power consumption of the system comprises accessing information about a current level of power consumption from each of the components in the system.

9. The method of claim 1, wherein the one or more components in the system include components that contribute to the power consumption of the system.

10. A computer readable medium having stored thereon sequences of instructions which are executable by a system, and which, when executed by the system, cause the system to perform a method, comprising:  
monitoring level of power consumption of a system; and  
when the monitored level of power consumption of the system violates a power consumption policy, adjusting power consumption of one or more components in the system until the level of power consumption of the system does not violate the power consumption policy, wherein adjusting the power consumption of the one or more components in the system includes setting the one or more components to a different operation mode without having to power off the one or more components.

11. The computer readable medium of claim 10, wherein the power consumption policy includes a high threshold and a low threshold, and wherein the power consumption policy is violated when the monitored level of power consumption is beyond a range between the high threshold and the low threshold.

12. The computer readable medium of claim 11, wherein the power consumption policy includes information about the one or more components in the system.

13. The computer readable medium of claim 12, wherein the information about the one or more components in the system includes information about how to adjust power consumption of the one or more components.

14. The computer readable medium of claim 11, wherein adjusting power consumption of one or more components in the system when the monitored level of power consumption violates a power consumption policy comprises:  
determining if the monitored level of power consumption violates the high threshold; and  
when the monitored level of power consumption violates the high threshold,  
reducing the power consumption of the one or more components in the system.

15. The computer readable medium of claim 14, further comprising:

when the monitored level of power consumption does not violate the high

threshold, determining if the power consumption of the one or more

components in the system has been reduced; and

when the power consumption of the one or more components in the system has

been reduced, allowing the power consumption of the one or more

components to increase.

16. The computer readable medium of claim 10, wherein monitoring the level of

power consumption of the system comprises accessing information about a

current level of power consumption from a power supply providing power to the

system.

17. The computer readable medium of claim 10, wherein monitoring the level of

power consumption of the system comprises accessing information about a

current level of power consumption from each of the components in the system.

18. A power consumption controller apparatus, comprising:

logic to monitor a level of power consumption in a system; and

logic to adjust power consumption of one or more components in the system when

the monitored level of power consumption in the system violates a power

consumption policy, wherein the power consumption of the one or more

components in the system is gradually adjusted until the system stops violating the power consumption policy.

19. The apparatus of claim 18, wherein the power consumption policy includes a high threshold and a low threshold, and wherein the power consumption policy is violated when the monitored level of power consumption is beyond a range between the high threshold and the low threshold.

20. The apparatus of claim 19, wherein the power consumption policy includes information about the one or more components in the system.

21. The apparatus of claim 20, wherein the information about the one or more components in the system includes information about how to gradually adjust the power consumption of the one or more components.

22. The apparatus of claim 19, wherein the logic to adjust the power consumption of the one or more components in the system comprises:

logic to determine if the monitored level of power consumption in the system

violates the high threshold; and

when the monitored level of power consumption in the system violates the high

threshold, logic to reduce the power consumption of the one or more

components.

23. The apparatus of claim 22, further comprising:

when the monitored level of power consumption does not violate the high threshold, logic to determine if the power consumption of the one or more components has been reduced; and

when the power consumption of the one or more components has been reduced, logic to allow the power consumption of the one or more components to increase.

24. The apparatus of claim 18, wherein the logic to monitor the level of power consumption of the system comprises logic to receive the level of power consumption from a power supply providing power to the system.

25. The apparatus of claim 18, wherein the logic to monitor the level of power consumption of the system comprises logic to receive a current level of power consumption from each of the one or more components in the system.

26. A power consumption controller apparatus, comprising:

means for monitoring a level of power consumption in a system; and

means for adjusting power consumption of one or more components in

the system when the monitored level of power consumption in the system

violates a power consumption policy, wherein the power consumption of the

one or more components in the system is gradually adjusted until the system

stops violating the power consumption policy.

27. The apparatus of claim 26, wherein the means for adjusting the power consumption of the one or more components in the system comprises means for reducing the power consumption of the one or more components.

28. The apparatus of claim 26, wherein the means for adjusting the power consumption of the one or more components comprises means for allowing the one or more components to increase power consumption.

29. The apparatus of claim 26, wherein the means for adjusting the power consumption of the one or more components comprises means for determining if the monitored level of power consumption is beyond a range of acceptable power consumption levels provided by the power consumption policy.

30. The apparatus of claim 29, wherein the range of acceptable power consumption levels includes a high power consumption threshold and a low power consumption threshold.